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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,830	02/17/2004	Richard C. Younce	PA 08 0045	9150
45149	7590	02/23/2007	EXAMINER	
TELLABS OPERATIONS, INC. LEGAL DEPARTMENT 1415 WEST DIEHL ROAD NAPERVILLE, IL 60563			HAROLD, JEFFEREY F	
			ART UNIT	PAPER NUMBER
			2614	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/779,830	YOUNCE ET AL.	
	Examiner	Art Unit	
	Jefferey F. Harold	2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 November 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 14-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 14-28 is/are rejected.
- 7) Claim(s) 29-33 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 17-20 and 24-27 provide for the use of tap coefficients, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14-16 and 21-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Yatrou et al. (United States Patent 5,343,522), hereinafter referenced as Yatrou.

Regarding claim 1, Yatrou discloses an adaptive sparse echo canceller using a sub-rate filter for active tap selection. In addition, Yatrou discloses a method for processing filter tap coefficients, comprising: adapting high-energy filter tap coefficients and low-energy filter tap coefficients when a first predetermined condition occurs; and separately adapting the high-energy filter tap coefficients from the low-energy filter tap

coefficients when a second predetermined condition occurs, as disclosed at column 3, line 12 through column 5, line 40 and exhibited in figures 1-3.

Regarding claim 15, Yatrou discloses everything claimed as applied above (see claim 14), in addition Yatrou discloses wherein separately adapting the high-energy filter tap coefficients from the low-energy filter tap coefficients comprises adapting the high-energy filter tap coefficients with a first gain constant and adapting the low-energy filter tap coefficients with a second gain constant, as disclosed at column 3, line 12 through column 5, line 40 and exhibited in figures 1-3.

Regarding claim 16 Yatrou discloses everything claimed as applied above (see claim 15, in addition Yatrou discloses wherein the first gain constant is greater than the second gain constant, as disclosed at column 3, line 12 through column 5, line 40 and exhibited in figures 1-3.

Regarding claim 28 Yatrou discloses a method for searching for filter taps for adaptation, comprising: searching for a first group of filter taps associated with a first energy level; biasing a group of filter taps adjacent to the first group; and searching for a second group of filter taps associated with a second energy level, as disclosed at column 3, line 12 through column 5, line 40 and exhibited in figures 1-3.

Regarding claims 21-23, Yatrou discloses everything claimed as applied above, in addition claims 21-23 are interpreted and thus rejected for the reasons set forth above in the rejection of claims 1-3.

Allowable Subject Matter

Claims 29-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F. Harold whose telephone number is 571-272-7519. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on 571-272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Jefferey E. Harold
Primary Examiner
Art Unit 2614


JFH
February 16, 2007